

# Free Computer Help

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# Internet Security for the Home Part 2



# Internet Security for the Home

Michael Daley

Master Degree Computer Information Systems

Worked for 38 years as a Computer Engineer for IBM &  
Hugh/Raytheon Missile Systems

I became “the guy” all my  
family – neighbors – ward – friend of a friend  
used to fix and repair their computers

Internet Security for the Home

My Number One Qualification

I am a

**Computer Nerd**

# “Audience” Computer History / Information

- What Operating Systems are you using?
  - Windows
  - MAC OS
  - Linux (Version)
  - Chrome OS
  - Other ?
- What is your “Experience Level”?
  - Master
    - You know it all
  - Intermediate
    - You know enough to stay out trouble
    - You know enough to be dangerous
  - Beginner
    - You do not know what you know

# Why are “Hackers” out to infect your computer?



# Why are “Hackers” out to infect your computer

- Bragging right
- Training / Practice
- Money!!!



# What are we protecting our computer against?

- Virus                      Designed to spread from computer to computer
- Trojan Horse            A malicious program that look like something useful
- Worms                     A stand alone malicious program the can replicate
- Key loggers              Record each key stroke type on a computer
- Back doors               Method to bypass password and logins
- Ransomware             Program keep you from your data, until a ransom
- Bots                        Program take command from outside the computer
- Malware                  Any program that dosen't act in your interest



# How to Protect Your Computer

- Keep your computer operation system up-to-date
- Anti-Virus programs
- Anti-Malware programs
- Passwords
- Firewalls
- Backup
  - Data
  - Full System
- Watch for unusual behavior

# The Loose Nut Behind the Keyboard

- It's ME

- It Also All of US



# Protecting Our Computers

Fire Walls

Anti-Virus

Passwords

Backups

Anti-Malware

Passwords

Watch for unusual behavior

Changing of the guards



# Protecting Our Computers From US

Hackers use **Social Engineering** to gain access to our computers and our data



**Social Engineering** get us to give the hackers the key or permissions to enter the computer



Once the hacker has the key or permissions, they can bypass all of the computer's defenses

# Social Engineer What Is It?

- Advertisers use it to get you to buy their product
- Stores use it to get us to buy their products
  - Candy and Magazines by the check out counter
  - Product Placement (End of Isles - Between Rows)
  - Signs (Sales , Bargains and Close-Outs)
- Web Sites use Popup, Banners and Tracking Cookies
- We are surrounded every day by examples of **Social Engineering**.
  - Most of it harmless

# Social Engineer and Computer Hackers

- Hackers Use Your Strongest Emotions To Get Us to Perform an Action
  - These Strong Emotions
    - Fear
    - Greed
    - Compassion
    - Familiarity / Trust
  - The Action
    - Follow a link in an email or a web site
    - Download a file or applications
    - Give them your information
      - Social Security Number
      - Bank Account
      - Password



# Social Engineering - Fear

- Email
  - You are Over-Drawn at the Bank
  - Your Account is to be Frozen
  - Your Credit Card need to be Verified
  - Your Utilities will be turn Off
- Message Popup
  - A virus has been detected
  - Browser is Locked
  - You have broken the Law – Authorities have been Notified

# Social Engineering – Greed

- A prince needs to move money to America and want to use your bank account
- Microsoft is giving away money
- Apple is giving away free iPhone
- Free Extended Warranty
- A Product or Service at a Very Low Price.
- You have Won a Prize



# Social Engineering – Compassion

- Charity Donation Requested
- Family Member Need Help
- Help Computer User with an Error

# Social Engineering – Familiarity / Trust

- Email Attachment from Friend or Family
- Email from Your Bank or Credit Union
- Message Popup at a Commonly Used Web Site
- Annoying Message Popup

# How Do we defend Ourselves?

- Become a Hermit live in a cave up in the mountains?

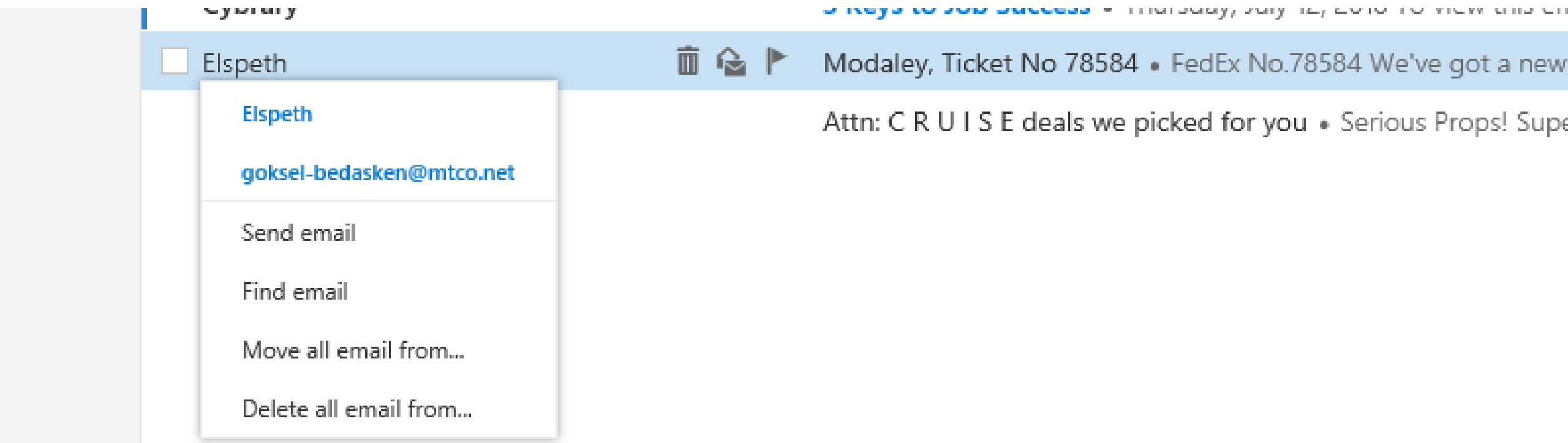


- No Computer, No Phone, and No Mail

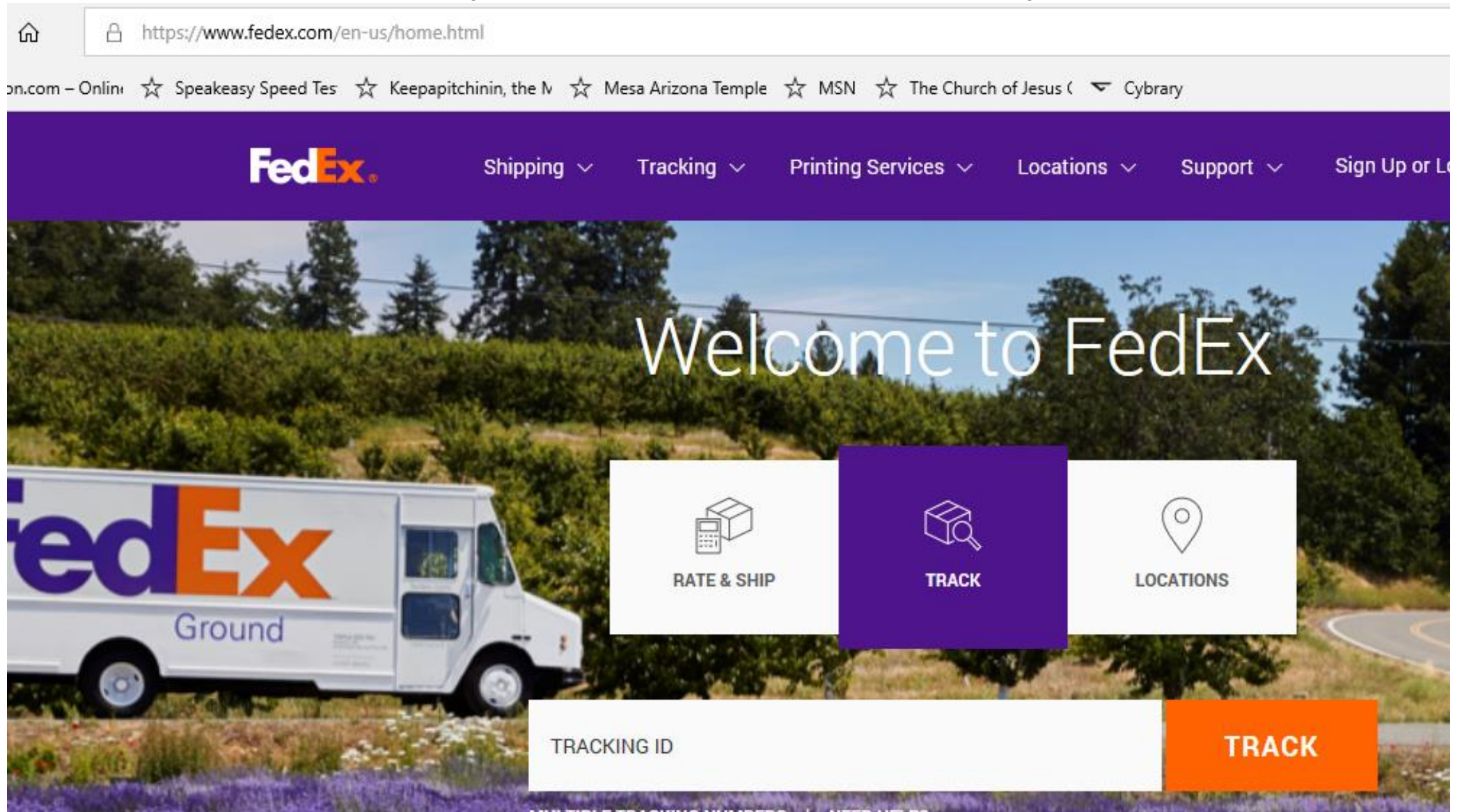
# How Do We Defend Ourselves?

- Slow Down / Stop
  - Ask your-self is this real?
  - Check Links
    - Email - Friends and Family
    - Hot link from Web Site
  - Go to a Known Web Site
    - Bank, Government Web Sites, Utility, and Business Web Site
  - Make sure you Browser is using “HTTP<sup>S</sup>” not “HTTP”
  - Run your Anti-Virus and Anti-Malware software

# Check your Links Example



# Check your Links Example



# Check your Links Example



Elspeth <goksel-bedasken@mtco.net>

Tue 7/3, 3:17 PM

You ↕

This message was identified as spam. We'll delete it after 0 days. [It's not spam](#)

**FedEx** No.78584

**We've got a new message for you.**

We have sent you a message with the required information.

Have trouble reading this email?

[Click here](#) to open this email in your browser.

[View messages](#)

Please click [unsubscribe](#) if you don't want to receive these messages from FedEx in the future.

# Check your Links Example

This message was identified as spam. We'll delete it after 0 days. [It's not spam](#)

**FedEx** No.78584

**We've got a new message for you.**

We have sent you a message with the required information.

Protected by Outlook: <http://www.proroads.eu/marvelousz.html>. Click or tap to follow the link. our browser.

**View messages**

Please click [unsubscribe](#) if you don't want to receive these messages from FedEx in the future.



# Email Attachment

- Verify with the sender
  - Check the link
  - Call, text or email the sender to verify they sent attachment
  - If Sender is Unknown to You, Delete
  - Some Time Even Opening an Email can Infect a Computer

# False Links

- Hackers have found a way to **create a false link** using a **known good link**

- |              |          |
|--------------|----------|
| • Valid Link | Bank.com |
| • False Link | Bank.com |

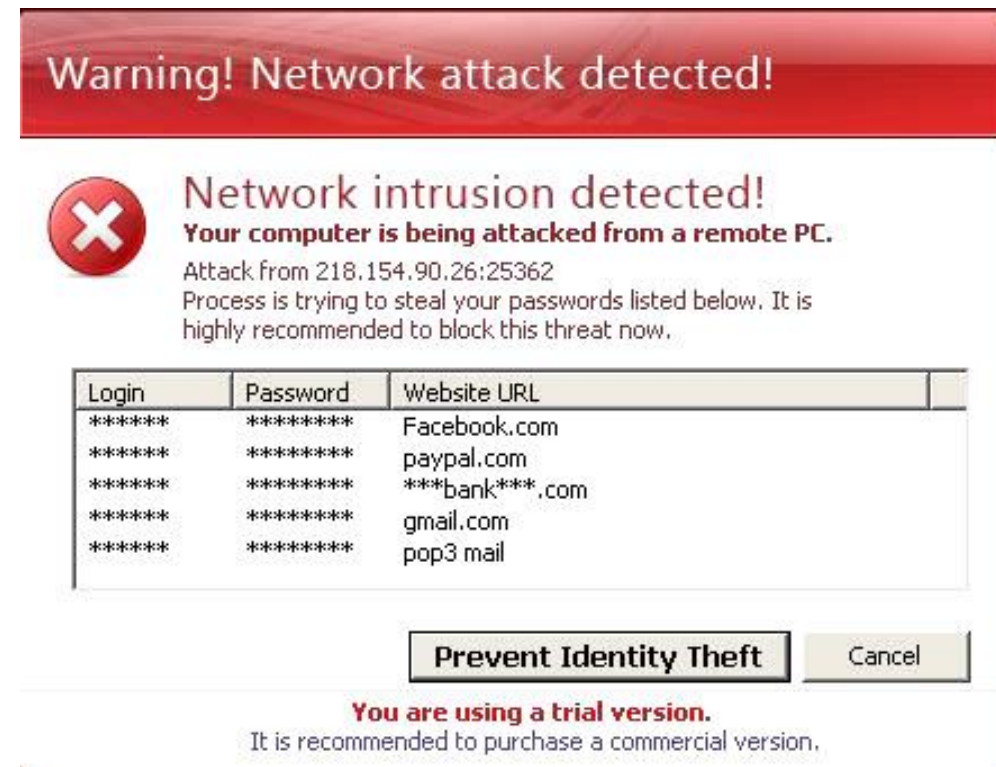
## Easier to see

- |              |                   |
|--------------|-------------------|
| • Valid Link | Bank.com          |
| • False Link | Ba <u>n</u> k.com |

# Message Popup

- Read the Popup Message
  - Does the Message Look Familiar
    - Size , Color and Wording
- Message Popup that offer Help (Virus, Drivers, and Repair)
  - Do Not Click Any of the Button
  - Press Any Button, Could Infect Your Computer

# Message Popup Example



# Same Password for Multiple Logins

- Websites you use could be hacked
  - Your login ID leaked
  - Your Password leaked.
- Use online tool to test if your ID has been leaked.
  - <https://haveibeenpwned.com/>
- If your ID has been compromised?
  - Change Passwords NOW.

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